AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior listings of claims in the application:

LISTING OF CLAIMS:

- 1-87. (Canceled)
- (Withdrawn-Currently Amended) An autovaccine against self-proteins in humans or animals comprising:

an analog of a self-protein made by substituting one or more peptide fragments in the self-protein with a corresponding number of immunodominant foreign T-cell epitopes selected from ovalbumin, hen egg lysozyme, tetanus toxoid, or diphtheria toxoid T-cell epitopes,

such that the tertiary secondary structure of the self-protein is essentially preserved; such that said analog induces an autoantibody response as evidenced by antibody binding to the unmodified self-protein; and

a pharmaceutically acceptable adjuvant.

- 89. (Withdrawn) The autovaccine of claim 88, wherein the pharmaceutically acceptable adjuvant is selected from the group consisting of calcium phosphate, saponin, quil A and biodegradable polymers.
- 90. (Withdrawn) The autovaccine of claim 88, wherein the pathogenic self- protein analog is present in the form of a fusion protein with an immunologically active cytokine.
- 91. (Withdrawn) The autovaccine of claim 90, wherein the immunologically active cytokine is selected from the group consisting of GM-CSF and interleukin 2.

- (Withdrawn) The autovaccine of claim 88, wherein the pathogenic self- protein is TNFa or v-interferon.
- (Withdrawn) A method for the treatment of cachexia comprising administration of an effective amount of the autovaccine of claim 92.
- (Withdrawn) The autovaccine of claim 88, wherein the pathogenic self- protein is IqE.
- 95. (Withdrawn) A method for the treatment of allergy comprising administration of an effective amount of the autovaccine of claim 94.
- 96. (Withdrawn) The autovaccine of claim 88, wherein the pathogenic self- protein is TNFa, TNFI3 or interleukin 1.
- (Withdrawn) A method for the treatment of chronic inflammatory diseases comprising administration of an effective amount of the autovaccine of claim 88.
- 98. (Withdrawn) A method for the treatment of rheumatoid arthritis or inflammatory bowel disease comprising administration of an effective amount of the autovaccine of claim 88.
- (Withdrawn) The autovaccine of daim 88, wherein the pathogenic self- protein is TNFa.
- (Withdrawn) A method for the treatment of diabetes mellitus comprising administration of an effective amount of the autovaccine of claim 99.
 - 101. (Canceled)
- 102. (Currently amended) A method for inducing autoantibodies against a self-protein in a subject, said method comprising:

administering to the subject an analog of the self-protein made by molecular biological means, wherein said analog is made by substituting one or more peptide fragments in the self-protein with a corresponding number of immunodominant foreign T-cell epitopes selected from ovalbumin, hen egg lysozyme, tetanus toxoid, or diphtheria toxoid T-cell epitopes.

such that the tertiary <u>secondary</u> structure of the self protein is essentially preserved such that said analog induces an autoantibody response as evidenced by antibody binding to the unmodified self-protein.

- 103. (Previously presented) The method of claim 102, wherein one or more of the immunodominant foreign T-cell epitopes is an ovalbumin T-cell epitope.
- 104. (Withdrawn) The method of claim 103, wherein the ovalbumin T-cell epitope comprises SEQ ID NO:2.
- 105. (Previously presented) The method of claim 103, wherein the ovalbumin T-cell epitope comprises SEQ ID NO:4.
- 106. (Withdrawn) The method of claim 102, wherein one or more of the immunodominant foreign T-cell epitopes is a hen egg lysozyme T-cell epitope.
- (Withdrawn) The method of claim 106, wherein the hen egg lysozyme T-cell epitope comprises SEQ ID NO:3.
- (Withdrawn The method of claim 106, wherein the hen egg lysozyme
 T-cell epitope comprises SEQ ID NO:5.
- 109. (Withdrawn) The method of claim 102, wherein one or more of the immunodominant foreign T-cell epitopes is a tetanus toxoid T-cell epitope.
 - 110. (Withdrawn) The method of claim 102, wherein one or more of the

immunodominant foreign T-cell epitopes is a diphtheria toxoid T-cell epitope.

- 111. (Previously presented) The method of claim 102, wherein the self-protein is TNF α .
- 112. (Withdrawn) The method of claim 102, wherein the self-protein is ubiquitin.